



Ceratavo® Plus

syngenta®

Product registration number: MAPP 17865.

CERATAVO PLUS is an emulsifiable concentrate containing 100 g/l (10.2% w/w) benzovindiflupyr.

Provides control of *Mycosphaerella graminicola*, Brown rust and Yellow rust and moderate control of *Septoria nodorum* in winter and spring wheat, control of Net blotch, *Ramularia collo-cyni* and Brown rust and moderate control of *Rhynchosporium secalis* on winter and spring barley, control of *Septoria spp.*, Brown Rust and Yellow Rust and moderate control of *Rhynchosporium secalis* on triticale, control of Brown rust and moderate control of *Rhynchosporium secalis* on rye.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

SAFETY PRECAUTIONS

(a) Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

OPERATORS MUST WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate. However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH SPLASHES from skin immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Environmental protection

To protect aquatic organisms, respect an unsprayed buffer zone to surface water bodies as specified for the crop.

HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY for all uses. Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Division's website. Maintain three star operating conditions until 30 m from the top of the bank of any surface water bodies. DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within the distance specified for the

crop to the top of the bank of a static or flowing water body, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water. NOTE: BUFFER ZONES OF MORE THAN 5 M CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENT RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME.

The statutory buffer zone must be maintained and the distance recorded in Section A of the LERAP record form. The LERAP record form must be kept available for three years.

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

(c) Storage and disposal

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely. KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place EMPTY CONTAINER COMPLETELY and dispose of safely.



This product label is compliant with the CPA Voluntary Initiative (VI) guidance.

In case of toxic or transport emergency ring

+44 (0)1484 538444 any time

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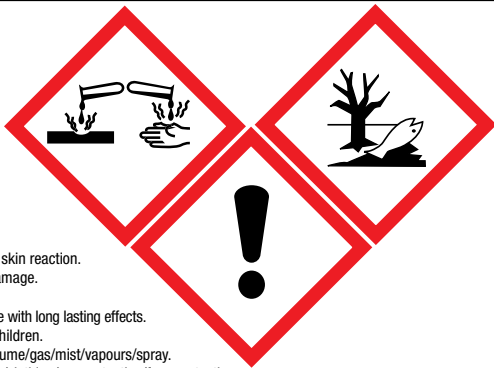


5 litres

SHAKE WELL BEFORE USE.
PROTECT FROM FROST.

CERATAVO PLUS

Emulsifiable concentrate containing
100 g/l (10.2% w/w) benzovindiflupyr.

**Signal Word**

Danger.

Hazard

Harmful if swallowed.

Statements

May cause an allergic skin reaction.
Causes serious eye damage.
Harmful if inhaled.

Precautionary**Statements**

Very toxic to aquatic life with long lasting effects.
Keep out of reach of children.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTRE or doctor/physician.
Collect spillage.
Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Supplemental**Information**

To avoid risks to human health and the environment, comply with the instructions for use.

MAPP No. 17865

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL FUNGICIDE

| Crop | Max. individual dose (litres/hectare/crop) | Maximum no. of treatments (per crop) | Latest time of application | Aquatic buffer zone distance (metres) |
|---|--|--------------------------------------|---|---------------------------------------|
| Winter and spring wheat, rye and triticale. | 0.75 | 1 | Up to and including anthesis complete (GS 69). | 6 |
| Winter and spring barley | 0.75 | 1 | Up to and including complete ear emergence (GS 59). | 6 |

Other Specific Restrictions:

- (1) This product must not be applied via hand-held equipment.
- (2) No more than two applications of products containing SDH inhibitors must be applied to any cereal crop.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

This leaflet is part of the approved Product Label.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

GENERAL INFORMATION

Benzovindiflupyr is an orthosubstituted pyrazole carboxamide fungicide belonging to the sub-class of the benzonorbornenes.

Benzovindiflupyr is an SDH inhibitor (FRAC group #7 carboxamides). Benzovindiflupyr is predominantly a protectant substance.

CERATAVO PLUS is best used as a protectant treatment or in the earliest stages of disease development.

DISEASES CONTROLLED

Winter and Spring Wheat

Leaf spot (*Mycosphaerella graminicola*)

Glume blotch (*Septoria nodorum*) [Moderate control]

Yellow rust (*Puccinia striiformis*)

Brown rust (*Puccinia recondita*)

Winter and Spring Barley

Net blotch (*Pyrenophora teres*)

Leaf blotch (*Rhynchosporium secalis*) [Moderate control]

Brown rust (*Puccinia hordei*)

Ramularia collo-cygni

Triticale

Yellow rust (*Puccinia striiformis*)

Brown rust (*Puccinia recondita*)

Septoria spp.

Leaf blotch (*Rhynchosporium secalis*) [Moderate control]

Rye

Brown rust (*Puccinia recondita*)

Leaf blotch (*Rhynchosporium secalis*) [Moderate control]

RESISTANCE MANAGEMENT

Use CERATAVO PLUS as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control, including where appropriate other fungicides with a different mode of action. You must not apply more than two foliar applications of products containing SDH inhibitors to any cereal crop.

Disease control may be reduced if strains of pathogens less sensitive to CERATAVO PLUS develop.

On cereal crops, CERATAVO PLUS must always be used in mixture with another product, recommended for control of the same target disease that contains a fungicide from a different cross resistance group and is applied at a dose that will give robust control.

Users should refer to current FRAG-UK guidelines for SDHI compounds.

CROP SPECIFIC INFORMATION

Crops and growing conditions

CERATAVO PLUS can be used on all varieties of winter and spring wheat, winter and spring barley, rye and triticale. Apply CERATAVO PLUS under good growing conditions with adequate soil moisture. Avoid poor growing conditions which may give less reliable results.

Timing

Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made as a protectant treatment or in the earliest stages of disease development following a disease risk assessment or the use of appropriate decision support systems.

Rates of use

Apply CERATAVO PLUS at 0.75 litres per hectare.

FOLLOWING CROPS

There are no restrictions on succeeding crops in a normal rotation.

MIXING AND SPRAYING

Mixing Procedure

Make sure the sprayer is set to give an even application at the correct volume. Fill the spray tank with half the required volume of water and begin agitation. Add the required amount of CERATAVO PLUS to the spray tank and allow to disperse before adding any other product. Add the rest of the water and continue to agitate the mixture thoroughly. Always agitate during spraying..

Spray Volume and Application

Apply CERATAVO PLUS in a recommended 100 - 400 litres of water per hectare through conventional crop spraying equipment. The higher spray volumes are recommended where the crop is dense or disease pressure/risk is high to ensure good penetration to the lower leaves and stem bases. Disease control may be compromised by reducing water volumes, where good spray coverage is difficult to achieve. A spray pressure of 2-3 bars is recommended. Effectiveness using three star drift reduction technology may be reduced.

After Spraying

Thoroughly wash out sprayer according to manufacturer's guidelines and dispose of washing and clean containers according to DEFRA Code of Practice and local water authority guidelines.
